

a fan for introducing the convection medium, the fan attached to the top of the fin bundle;  
[and]  
a base attached to the bottom of the fin bundle; and  
a clip that attaches and thermally couples the base to the bottom of the fin bundle.

23. (Previously Twice Amended) The apparatus of claim 22, wherein the sheet is made from an alloy containing aluminum.

24. (Previously Twice Amended) The apparatus of claim 22, wherein the base is made out of manufactured diamond.

### **REMARKS**

Applicant has reviewed and considered the Office Action mailed on December 31, 2001, and the references cited therewith. Claims 1 and 22 are amended. Claims 1-3, 5-9, and 22-24 are pending in this application. No new matter is added by these amendments. Applicant respectfully requests reconsideration and allowance of all claims in view of the amendments above and the remarks that follow.

### **§103 Rejection of the Claims**

Claims 1-2, 5-9, and 22-24 were rejected under 35 USC § 103 as being unpatentable over Jean (U.S. Patent No. 5,701,951) or Morosas (U.S. Patent No. 5,494,058) in view of Lee (U.S. Patent No. 4,375,655). Claim 3 was rejected under 35 USC § 103 as being unpatentable over Jean (U.S. Patent No. 5,701,951) or Morosas (U.S. Patent No. 5,494,058) in view of Bishop, et al. (U.S. Patent No. 5,576,932). Applicant respectfully submits that Jean, Morosas, Lee, and Bishop, alone or in combination, do not teach or suggest applicant's claims for the reasons argued below.

Claim 1 recites: "a clip that attaches and thermally couples the folded fin structure to the base."

In contrast, Jean merely describes that "a corrugated porous heat dissipating plate 60

made of a flexible head conducting material” is “fixed on the base plate 50.” *Jean at column 2, lines 28-30*. Thus, Jean does not teach or suggest “a clip” or “a clip that attaches and thermally couples the folded fin structure to the base,” as recited in claim 1.

Morosas merely describes that “the fins 20 are fixed at their lower ends to the base 18.” *Morosas at column 3, lines 4-5*. Thus, Morosas does not teach or suggest “a clip” or “a clip that attaches and thermally couples the folded fin structure to the base,” as recited in claim 1.

Lee merely describes that “each finned component includes a plurality of segments bonded to the base plate.” *Lee at column 6, lines 14-16*. Thus, Lee does not teach or suggest “a clip” or “a clip that attaches and thermally couples the folded fin structure to the base,” as recited in claim 1.

Bishop merely describes that a “base includes a plurality of rectangularly-shaped fins 22.” *Bishop at column 3, lines 65-66*. Thus, in Bishop the base and rectangularly-shaped fins are one piece, as shown in Bishop Fig. 1, so Bishop teaches away from the clip as recited in claim 1.

Thus, the references, alone or in combination, do not teach or suggest “a clip” or “a clip that attaches and thermally couples the folded fin structure to the base,” as recited in claim 1.

Claims 2-3 and 5-9 are dependent on claim 1 and are patentable over the references for the reasons argued above, plus the elements in the claims. Claim 22 recites a similar element as claim 1 and is patentable over the references for the reasons argued above. Claims 23-24 are dependent on claim 22 and are patentable over the references for the reasons argued above, plus the elements in the claims.

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Conclusion

Applicant respectfully submits that the claims are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney, 612-371-2103, to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

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1

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2/22/2002

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